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GenCore version 5.1.4 p5,4578 Copyright (c) 1993 - 2003 Computer Ltd.
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oM nucleic - protein search, using trame_plus_nap model

March 25, 2803, 14:40:46; Starch time 45.5 Seconds Run on:

US-09 719-0546-3

(without alluments)
2853.818 Killion cell apdutozoez 1698 Pertect score:

Scoring table;

Sequence:

RLOSUM62 Xgapop 10.0 , Xgapext Ygapop 10.0 ; Ydapext Fgapop 6.0 ; Fgapext Delop 6.0 ; Delext

28/224 seqs, 96134422 residues

Total number of hits satisfying chosen parameters:

Minimum DB seq length. Q Maximum DB seq length. 200000000

Post-processing: Minimum Match 08

Listing first 45 summaries May Committee I.

Command line parameters:

PIR_74:*

pir4:∗ l: pirl:* 2: pir2:* pir2:* pir:

Prod. No. is the number of results predicted by chance to have a score areater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

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between the SWISS-PFOT outry is capitable. It is produced the eMBL outstation between the SWISS Institute of Bioinformatics and the EMBL outstation. For European Bioinformatics institute. There are no restrictions on its use by non-profit institutions as lond as its content is in no way modified and bis statement is not removed. Usage by and for commercial offices requires a linear office. For the example of the send an email to license lists the output.
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Sekusicki M., Satzersa K., Kailer B., Jacuba K., Wouka I., Millir Y.,

    Biol. Chem. 272:2218-2222(1997).
    FORFICH: MAY FURGILER IN THE FOLEGAMENT METAR GLESK OF EMBERHOUS

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Moterine M., Pingi Y., Yiya L., Mara A., Makaninid M., Sawada H.;
"Officiastructural localization of carbongs reductase in mease luna.";
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Mammalia; Entheria; Rodentia; Scionomathi; Muridae; Murinae; Mos
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MEDLINE 95220-665; PubMed 7705-62;
Rakhalishi E., Feyashiki T., Shahima K., Hara A.,
Cloning expression and tissue distribution of mouse tetrametric curbonyl redschase. Identity with an adipocyte 27 Kha protein.";
Eur. J. Riochom. 428:381-387(1995).
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-! CARLYTIC ACTIVITY: R-CHOH-K' (NADP(+) R-CO K' (NADPH, -) COATAYTIC ACTIVITY AND NADPAND AS CORREYMES, HAG A SIRCHO PREFERENCE FOR NADP.
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15-JUN-2002 (Ref. 41, Last annotation update)
Lung carbonyl reductase [NADPH] (Et 1.1.1.184) (NADPH-dependent
carbonyl reductase; [ADPH] (Ref. 1.1.1.1.184)
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the European Holmformatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed "usage by and for commercial entities requires a license agreement (See Hitp://www.ib.sib.bib.ch.) or send an email to licensetlab sib.ch.
                                                                                                                                                                                                                                                                                                                                                                                                                                 this SWISS-PRES carry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
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-1- SHBCHLUHAR DeCATION: Mitochandrial matrix (By Sinitarity).

-1- SHBCHLUHAR DECATION: FOUR SHORT SHALM DARVESCHANDSTANDS.
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MITCHEN 99287 (G) PubMed DesboG718
Metson R.E. Clayton R.A. Gill S.R., Gwinn M.L., Londson R.J.,
Gill S.R., Garie M. C., C., E. C., Grant G. G., G. C., C. C.,
Hersonld L., Utterhack F.E., Maick S.A., Linker B.L., Direct M.M.,
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This SWISS-PROT entry is copyright. It is produced through a collaboration
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W. MORSOGIDZBOOGHIZ (Bened.)
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SIMILARITY, BELONGS to THE SHORT-CHAIN HUNTHOMANAGAZKEDHCTASHS
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PSR199;
01-007-1996 (Rel. 44, Created)
01-007-1996 (Rel. 44, Last sequence update)
16-007-2001 (Rel. 40, Last annotation update)
Gluconate 5-dehydroqenase (RC 1.1.1.69) (5 Reto-b-aluconate 5-
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This SWISS-PROT entry is copyright. It is produced through a collaboration the SWISS institute of Bioinformatics and the EMBAL outstaffon. The European Bioinformatics hastfulle. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement in not removed. Name by and the symmetric outlines requires a flexuse and removed. Some by and the symmetric outlines requires a flexuse and a send an email to license distribution.
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4.5 GEGAACAACEPSE EGICT OF CIT-COGA COTTOCTO WASSINGTOOD AND

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This EMESS PROT entry is copyright. It is predeced through a collaboration terwer the Swiss Institute of Richtormalies and the PMRL outstation—the European Bioinformalies institute. There are no restrictions on its eser by non-profit institutions as its non-assumed in this statement is not removed. Osage by and for commercial
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Nikolima K. Hashimoto I., Yamada Y.;
Nikolima K. Hashimoto I., Yamada Y.;
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office requires a freeze agreement (see http://www.isb-sib.cb/amananew/
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the Buropean Riointormatics Institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial entities requires a license agreement (eve hitt...*** ick sit of one or send an email to licenseelsb-sib.ch).
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 This SWISS-PROT entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation -
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    "Sequence analysis of the GntII (subsidiary) system for queenate metabolism reveals a novel pathway to L idouic acid catabolism in Escherichia coll.",

J. Bacteriol. 180.7594 3710(1598)

-1- FUNCTION. CATALYZES A REVERSIBLE REPORTER OF 5 KITCGLIFTANATE TO FORM D-GLUCOMAZE. SETEMBERT N NALT. ALM CI INC. TYPE V.I.E NE.

-1- CALACATIC ACTIVITY. D-GLUCOMATE - NALGED COLUMNATE TO STANDARD COLUMNATE.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              -i- SUBCELLUIAR Location: Cytoplasmic (Probable).
-i- SIMILARITY: BELONGS TO THE SHORT-CHAIN DEBYDROSINASES/REDUCTASES
                                                                                                                                                                                                                                                                                                                                                                                                "Analysis of the Escherichia coli genome VI: DNA sequence of the
                                                                                                                                                                                                                                        Racterias Proteobasterias gamma cabdivision, Baterobasterias ao.
Escherichia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Bausch C., Prekhaus N., Utz C., Blais I., Murray E., Lawary I.,
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                                                                                                             01-FEB 1995 (Rel. 4L Created)
01-FEB 1995 (Rel. 4L Last sequence update)
16-001-2001 (Rel. 40, Last annotation update)
Gluconate 5 dehydreacaax (EC 1.2.1.59) (5 ktt. 2 gluconate 5
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 -!- PAFHWAY: PART OF THE GLUCCONATE UTILIZATION SYSTEM SNT-11.
                                                                                                                                                                                                                                                                                                                          STRAIN-K12 / MG1655;
MEDLIND 9534762, Filling 7410345;
Burland V.D., Plunkett G. iff, Sofia H.J., Lanfels D.L.,
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Nucleic Acids Res. 24:2105-2119(1995).
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PROSITE; PSOGOGI; ADH_SHORT; 1.
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BeoGene: EG12540; idno.
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This SWISS-PROT entry is copyright. It is produced through a collaboration between the SASS institute of Holologomatics and the TRHL outstation the European Bioinformatics institute. There are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed theate by and for commercial entities repulses a liberal property (for Fig. 1988 and for commercial entities repulses a liberal sib.ch).
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Submitted (OCF-1997) to the SWISS-PROT data bank.
From Mary True ACTIVITY: 2.8-dibytro-2.8-dibytro-2.8-dibytro-380(*)
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This SWISS-PROI entry is copyright. It is produced through a collaboration between the Swiss Institute of Bioinformatics and the EMBL outstation for European Bioinformatics institute. There are no restrictions on its use by non-principle institution as lost as the content is in no war modified and this statement is not recoved. Usage by and for commercial entities requires a license agreement (see http://www.i.s.t.s.t.b. not.en.c.) or send an email to license lisb-sib.ch).
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-1- CATALXIIC ACTIVITY: 2 dcoxy 1 also nate Whi() : dclydro 2
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This SWISS Bed entry is copyright. It is produced th, and a collaboration drowen the SWISS institute of Bioinformatics and the EMBL outstation. The European Bioinformatics tastitute. There are no testificians on its ase. By more profit institutions as long as its convert is in no any modified and this statement is not removed. Usage by and for commercial outfilles, a professional first and the modern of such files. It is not send as continuous the ball by and to commercial or send as continuous testificated ($0 = 0.00 \text{ Biography}).
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MULLING SELECTF, PubMed 9560196;
Nakajima K., Vamaskita A., Akama H., Nakatsaji, Kato H.,
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[E-003-2001 [Rel. 40, Last annotation update)
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Biochemistry 48:76:40-76:47(1999).
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A KIRIST F. Galakaara Fannea Free F. Alberthii A.E. Alleni G., Azevedo V., Borrero M.G., Bessires P., Rolotin A., Borrelort S., A Azevedo V., Borrero M.G., Bessires P., Broton A., Borrelort S., A Houlitet S., Brusch C.V., Galdwell B., Capuano V., Carter N.B., A Houlitet S., Brusch C.V., Caldwell B., Capuano V., Carter N.B., A Houlitet S., Brusch C.V., Caldwell B., Capuano V., Carter N.B., A Houlitet S., Carter N.B., Discourse F.E., Capuano V., Carter N.B., Capuano V., Capuano J., Carter N.B., Capuano D., Capuano J., Capuan
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! STRITAKUT, BID-WAS LOTHE SIEKT CHAIN DOUGE-SINACUSFERMONASES
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Kb region from 22 detrees to 33 deprees.";
Mat. Nierobico. 16:371-384(1993).
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H., Jumberhi A., Dunka I., Forpstri P., Foquoni A.,
Jorhiyana S., Vandenhol M., Vannier E., Vassarotti A.,
Warbert E., Woller E., Weiter H., Weitzeneager I. A.,
Wilat A., Zanasack H., Yasana E., Yazawa H., Danchin A.,
J., Vochikasa H.E., Zanstein E., Yoshikawa H., Danchin A.,
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Hollo M.F., Tenesem M., Cabochinsky B., Marcelhad E., Meszor L.,
Prosecan E., Santana M., Schneider E., Schweizer J., Vertes A.,
                                                                                                                                                                                                                                                                                      Bacteria; Firmicutes; Bacillales; Bacillaceae; Bacillus,
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This SWISS FFG entry is copyright. It is produced through a collaboration between the swiss has flute of Biointonnaties and the BML outstation the European Holomormatics into there are no restrictions on its use by non-profit institutions as long as its content is in no way modified and this statement is not removed. Usage by and for commercial call to require a linear profit (or regime of linear statement) in the new or send an emitted of send of linear statements.
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Ishikura S., Isa)i T., Usami N., Kitahara K., Nakadawa J., Hara A.,
"Molecular cloning, expression and Tissue distribution of hamster
diametyl reductase. Identity with a syluture, reductase.",
Submitted (JUM-206n) to the PMREFORMERE/INSTRAINS.".
-1. SIMILARITY, BELCHIS TO THE SHORT CHAIR LERVER CENARES/HEIGHTED.
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Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Eureleostomi;
Mammalia; Eurherla; Rodentia; Sciuroquathi; Muridae; Criectinae;
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01-DEC-2001 (ITEMBLE). 19, Last sequence update)
01-BAK 2022 (ITEMBLE). 20, Last sequence update)
Discetyl/Lexylulose reductase.
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PROSITE: PS00061; APH_FH2ET; TRENOMH_1.
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SEGURACE INCH N.A.

STACK-GSTRL/GJ. IISSUE EMBRYON

XX. Marbines 2.2048 GGD. Fulbred-1127785;

XX. Marbines 2.2048 GGD. Fulbred-1127785;

XX. Marbines 2.2048 GGD. Fulbred-1127785;

XX. Anakawa I., Bari A., Shibara K., Shomeo H., Adachi J., Pukuda S.,

XX. Anakawa I., Bari A., Fukudi X., Konno H., Adachi J., Pukuda S.,

XX. Sailoo I., Pukuda K., Malanda I., Sailoo K.,

XX. Anito I., Warsaka H.A., Ashburner M., Hardice S., Casavant I.,

XX. Fleischmath W., Gasterland T., Gissi C., Kint R., &celiva H.,

YX. Fleischmath W., Stattel E., Survice M., Marbar I., Varsika H.,

XX. Sailoo I., Vardel E., Sailoo H., Marbarde I., Marbare I., Washio I.,

XX. Sailoo I., Saitel E., Gorden M., Armo H., Baldarelli F., Ranski G.,

XX. Sailoo I., Marbarelli D., Holmath M., Hime D.A., Kumiya M., Lee N. H.,

XX. Gustincich S., Hill D., Holmath M., Hime D.A., Kumiya M., Lee N. H.,

XX. Sailoo I., Marbined S., Hill D., Holmath M., Mime D.A., Kumiya M., Lee N. H.,

XX. Sailoo I., Marbined S., Hill D., Holmath M., Hime D.A., Kumiya M., Lee N. H.,

XX. Sailoo I., Marbined S., Hill D., Holmath M., Hime D.A., Kumiya M., Bonbaretts P.,

XX. Sailoo I., Marbined S., Hill D., Holmath M., Mime D.A., Kumiya M., Bonbaretts P.,

XX. Sailoo I., Marbines M., Markines J., Marbines J., Mannacetts P., Markines M., Markines J., Markines J.,
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Enkaryota: Metazoa: Chordata: Craniata: Vertebrata: Enteleostomi:
Mammalia: Entheria: Rodentia: Sciuroquathi: Muridae: Murinae: Mus.
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Nature 409:685-690(2001).
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1810027PIRKik protein.
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"Town-ent (TEMMILE), 12, Last sequence update)
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Mammalia, Butheria, Redestia, Seigromathi, Monidae, Monidae, Battus,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         21 ArqSerThrValLeuAlaLeuLysAlaAlaGlyAlaGlnValValAlaValSerArqThr 40
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01-DEC 2001 (ITEMBLIEL, 15, Last sequence update)
01-MAR-2002 (ITEMBLIEL, 20, Last annotation update)
Diacotyl/L xglillise refuntase (EC L.1 2.19)
Conservative:
Elemethes.
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90.95%
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SKATALVIKO, ZEGELYO, TEGELED, MOKALONE, ANMOJDA NJES, DOJ W
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Cordilo B., Goldham B.S., Noo Y., Askerati M., Balilia F., Hellin D.,
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Wellow C., Allinger M., Wengliy D., Stiff C., Lappan C., Markela B.,
Flancagan C., Crowell C., Durson J., Lomo C., Scar C., Strub G.,
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Barndon R.C., Roders Y.-H.C., Blazej R.G., Champe M., Prelifer B.D.,
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Miranda A., Mundali C.L., Numen J., Parleb J., Barana V., Park S.,
Patrel S., Ebonanemazonet S., Man K., Yu C., Lewis S.E., Fourin G.M.,
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PRINTS: PROCEED SUPERMILY.
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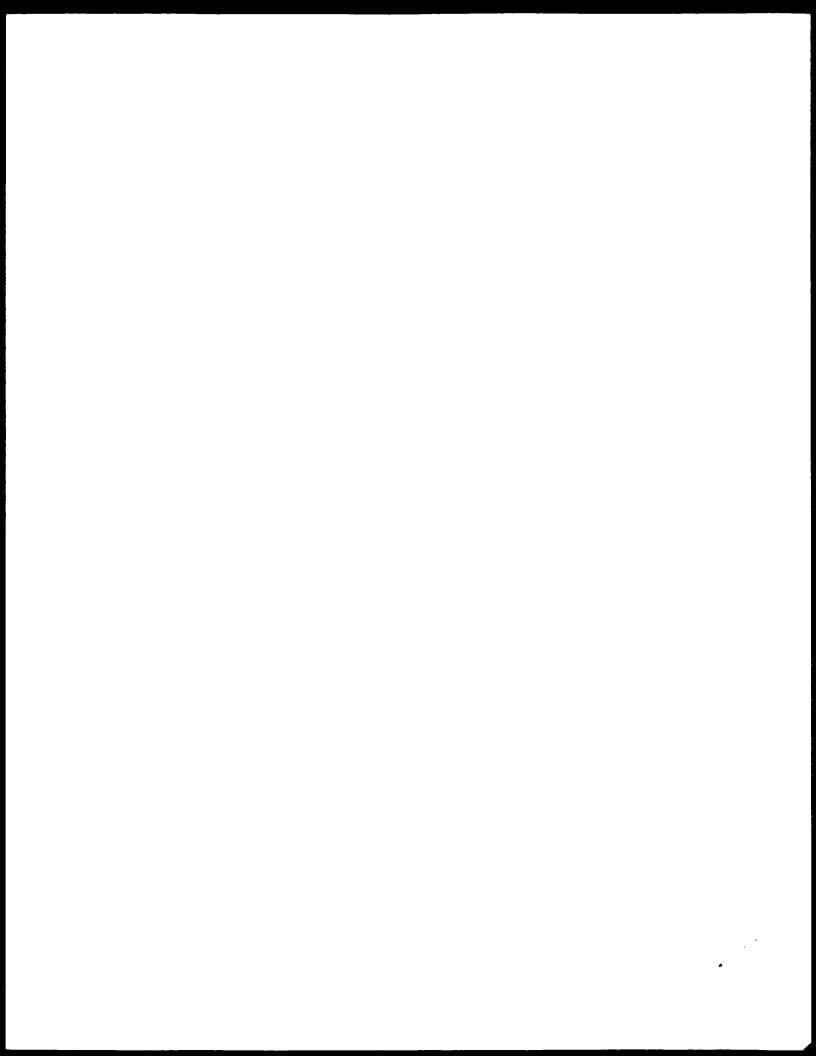
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G109/101/GAGD GGA LCAGGGA LCT LAW AGGL DE PLANGAGER 237
                                                                     . ...-- TOGGAGGCCAC: 285
                                                                                                                                                                                                            446 CTGCTGCAGCCCTTCCTGGAGCTCACCAAGGAGGCTTTGACAGATGCTTTGAGGTGAAC 405
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                                                                                                                                       CysAspValacrAspSerGinserValAreGinAlaVal 81
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Weissenbach J., Boucher C.A.;

"Achonge sequence of the plant pathogen Kalstonia solamacearum.";

EMHL: AL5446077; CAD17456.1; -.
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                               49 AlaAspAsuValAlaGlufleAlaGluGlufeuAspAsuAlaVal
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01-MAR-2002 (ITEMBLIOL), 20, Last sequence update)
01-JSN-2002 (ITEMBLIOL, 21, Last amount ion update)
Probable dehygraginas caldoroductuse protein.
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Plasmid megaplasmid.
                                                                   2.48 CCGGGGATAGAACCCGTGCGTGGACCTGGGTGAC---
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viruses and fundi, coular disorders such as coincel intection, endocrine disorders such as penature labour and interfility, quastrointestinal disorders such as Crohn's disease, remai disorders such as distinal apparentitis and respiratory disorders such as astuma. The polypeptides can also be used to aid wound healing, to prevent skin dains due to sumburn, to maintain organs betwee transplantation, to respective
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              tissues and in chemotaxis. The polypeptides can also be used as a food additive or preservative to increase or decrease stonese emphilities. Wate: the sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from Wife.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             disorders in e.g. humans, mice, rabbits, goats, horses, cats, dogs, chiebens or shorp. A pathological condition can be determined the presence or absence of a mutation in an endocrine polynocleotide. The treatable disorders include a toimmane discuss such as theumateid arthritis, hyperproliferative disorders such as neoplasms.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         of the breast or liver, cardiovascular disorders such as vardias arrest, corebrovascular disorders such as cerebral ischnemia, nervous system
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invention. Endoctine polypeptides and their associated polynucleotides
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The present invention provides homen chMAs, proteins and related accommic NMAs. Hose cur be used in the treatment of neural, immone system, measurable, representing, astrointestinal, pulheanty, cardiovascular, renal and preliterative disorders and inflamment or. The present sequence is a protein of the invention.
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The present invention provides homen chMas, proteins and related genomic DNAs. These can be used in the treatment of neural, immuse system, muscular, reproductive, gastrointestinal, pulmonary, cardiovascular, renal and preliterative disorders and inflammation. The present sequence is a protein of the invention.
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    (a) (ANV-2001); J. (1017); O. P. (1965).
    (b) 1738-2000; J. (1967); O. (1965).
    (c) 1938-2000; J. (1960).
    (d) 1938-2000; J. (1960).

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the present invention relates to the isolation of movel human enzyme polygeptids and the CDM (AASGCAS AASGLES) and general sequences encoding them. The enzyme polyperides of the invention may comprise the functional Alasses. List to the two them are sequences functional Alasses. The sequences of the invention are useful in the disaments treatment, prevention and/or products of a Alastonal in the disamed and including hyperpolification of the invention are useful in the immunodeliclency disorders (e.g. Alb) autoimmune disorders.

(e.g. Albitials), neurological disorders (e.g. Alzheimmuney disorders (e.g. phenylketonnia), inflammatory disorders. Note: The sequence data for this patent did not form part of the printed specification, but was obtained in electronic format directly from Wiles at Itp.wipo.int/pub/published_pot_sequences (e.a. intertility) and infections disorders (e.a. Inthuenza). The polynucleotides of the invention can also be used in gene therapy. AAG229: AAB23814 represent the need behave relying polynoptides of the

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invention. The breast and orarian rancer associated INA, protein, armist or arbaponics separates exhibit cytostaticy immunosappressive, monoprotectives anticolic antialleraje; hepatotropic; antifoliated responsibility antialleraje and incomputant; and thousers a antifoliated and parasitic and cardiant activity. The particolic and protein sequences are used in the diagnosis of cancer, particolarly breast and oranian cancer. The nucleic acid sequences, proteins, arealists and agonists may also be used in the diagnosis.
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a seases associated with the enzyme
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Caim I: Columns 41 44; 27pp; English.

prostactandin or hydroxysicroids, as well as in drug metabolism. The cell can be used to produce a recombinant homon carbonyl reductase protein, resulting from excessive prographandin E-production, or to prevent camer development after exposure to carcinoques. The color can be used to the e determinan be used for the earbidry) reductase meneleje the invention relates to BNA encoding a buman earlonyl reductase protein (PPM) sequence. Also claimed are: a probe that hybridises to the DNA sequence; an expression porter confining the PNA sequence; and a host cell containing the Vector. The enzyme catalyses her reduction of circlesyls to alcohols, physiologically functioning as dehydrogenases of which can be used to treat inflammatory or immunological disorders asids in biological samples. Antisense constructs based on the polymerleotides can be used to control expression of the gene. The present sequence represents human carbony, reductuse. since purpose. The probe can be used to detect ##**X**#X8888888888888888

Sequence 244 AA;

Conservation: Mismatches: Length: Matches: Indels: 48.773 98.77% 71.67% Bost Local Similarity: Query Match: Percent Similarity: Allettanent Sectors:

US-09 719 0538 4 (1-912) x AAW51008 (1-244)

82 APERACTOTIC TOS SASSOCIASTORIGATION SE ANTAGOTAAAGIALANGS 144 21 Arqdiy Hu ValqinAlanadisAlaThrdiyAlaAnaya ValAlaValderArqithr 40 205 FAGGAGATGTTGAPAGGTTIG ROGGGAGTGCPGGGATAGAAFGGTGFGAG S $\bar{\Xi}$ Ē

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81 ValAsnAsnAlaAlaValAlaLeuLeuGInProPheLeuGluValThrLysGluAlaPhe 100 185 GACAGALDCTT IGAGGTGAACC DYGTGCGGTCA FYCAGGLGT GYGAGALTG FGGCCAGG 444

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(TAIS) TAISH PHARM OF LID. 99W+ 1P01194. 98.115-046-0142. 98.HP - 0(180) 95 Nakadawa J, Yoshimoto M; Wingstern Al. 11-MAR-1499; 12-MAH - 11948; 13 (B) [13/H) IN-SEP 1999.

Milk SE

WELL 1999-501402/40. N PSDB: AA209757.

Diembolylleductase localized in Ridney tissue used for treatment and diagnosis of, e.g. diabetes

Claim 3: Page 55 56; 62pp; Japanese.

This invention describes novel dicarbonylreductuse (DER) protons isolated from mouse and human and which are expressed specifically in kidney tissue. The products of the invention have high reductive actions the very tissue. The plantic alpha diketones and aromatic orthopalnones as substrates. The DER protein and its encoding modele acid can be used to the interpretable the protein and its encoding modele acid can be with which the protein is associated, including complications of diabetes, diabetes kindley insolitications of arterioscienesis; also screening of potential deaps for treatment of arterioscienesis; his sequence represents the marine dicarbonylredactage. protein described in the invention.

Sequence 244 AA;

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Score	1041,00	Matches:	
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endineered to express them are also metric. Its production the proteins,
the proteins are useful in genetic vaccination, restling and
                                                               PROBONSTANCTION OF A LANGE FOR METANGED FOR COLORISM MICHIGAN SERVICES SEA
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stem cell proliferation; harmatopoiesis; merce ()ssue reteneration;
immune suppression; immune stimulation; anti inflammatory; leukaemia.
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26 JAN 2001; 2001US-0770150.
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                                                                                                                        Peroviat Similarity:
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AAWS1009 Standard: protein; 244 AA.

AAWS LOURS;

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The invention relates to DNA enroding a human carbonyl reductase protein (PKE) separate. Also claimed ite: a protein that Arbidises to the DNA sequence, an expression vector rotatining the DNA sequence, and a host cell containing the vector. The enzyme catalyses the reduction of earbonyls to alrehols, physiologically therefore as dehydrosenases of prostagliatics of hybridises as well as in dealerabelian. The cell can be used to produce a recombinant human carbonyl reductase protein, which can be used to treat inflammatory or immunological disorders
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             resulting from excessive prostaglandin E production, or to prevent cancer development after exposure to carcinogens. The vertex can be used for the same purpose. The probe can be used to detect carbonyl reductase nucleic acids in biological samples. Antisense constructs based on the polymeter idea of the control expression of the que. The present sequence represents pig lung carbonyl reductase.
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                                                                                                                                                                                                        Human carbonyl reductase: HCKD; inflammatory disorder; cancer;
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Jourserval Lieu
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                                                                                                                                                                                                                                                          immunological disorder; prostaglandin E.
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                                                                                                    Pig lung carbonyl reductase.
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10-AUG-1998 (first entry)
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4.4.48
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The insection relates to DNA encoding a human carbonyl reductase protein

(ititle) sequence. Also claimed are: a probe that hybridises to the DNA sequence; and a host sequence; an expression vector containing the DNA sequence; and a host evel current in the vector. The entryine catalyses the reduction of catalyses the result in the catalyses are also catalyses the result in the major of prevent concerns the cataly catalyses. The probe additional catalyses the probe and another catalyses the probe can be used to detect catalyses the probe catalyses. The probe catalyses the results of the cataly catalyses are the used to carrelloques. The vector can be used to the polymetrolides can be used to cataly expression of the quee. The polymetrolides can be used to cataly expression of the quee. The

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APPLICANT: HELDMAN, JOHNSTON.
APPLICANT: BALL, SULVA K.
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TILLE OF INVENTION: A ROVIL HOMAN CARRONYL REDUCTASE
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STREEL: 4174 Porter Frive
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APPLICANT: EREKSSON EL AL.
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Obstibat, DSC 88A1104.
APPLICANT: ERIKSS
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APPLICANT: Briksson, UTF. Simon, Andras; Romert, Anna
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TILLIA OF INVENTIA: A CHARLE AND MELLIN AND STATES WITH FS 4, A PERIOD OF A
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25 LeuAlaAlaArgGlyGlyGlyEysVallleGlyThrAlaThrSezGluAcuClyALuClaAia 44
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TILSE OF INVERTIBED, RETIRED BINDING PROTITIN RECEIPTOR PRIMITING OF STRUCTURES. 41
CORRESPONDENCE ADDRESS:
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CHREENT AFFILGATOR LAIA
PPLICATION NUMBER: US/08/729,594A
FILING DAIR: II-OCCOBET-1996
CLASSIFICATION: 4.45
PRIOR APPLICATION NATA:
APPLICATION NEWBER: 08/562,114
FILING LAIE: 22 No. 628099575mber 1955
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NAME: Hanson, No. 6280997man D.
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KERTRIANGE (1907)
TELECOMMUNICATION INFORMATION:
FELEPHONE: (2.2) 6.88-9200
TELEFAX: (2.2) 8.48-3884
INFORMATION POR SEQ ID NO: 13:
SEQUENCE CHARACTERISTICS:
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                                                                                                                               ADDRESSED: Felto & Tymch
STREET: 805 Third Avenue
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                                                                                          108 Gln------AlaAspValThrArqProAsnAlaAlaAlaGluLeuPheSerSerVal 124
18. ValAsnAlaValAlaProGlyPhelleValSerAspMctThrAsnAlatan SerAsp 200
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Prior application data composed - consust PALM of 1110 M appro-
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SOFTWARE: Patentin Ver. 2.0
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                                                                                                                                                                                                                                                                                             APPLICANT: Carr, Grant J.
APPLICANT: Yamamorto, Pobbert T.
APPLICANT: Xu, H. Howard
TITLE OF INVENTION: Identification of Essential Genes in
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SOFTWARE: FastSEQ for Windows Version 4.0
SEQ 15 NO 11942
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CURRENT APPLICATION NUMBUR. 05/03/815,242
CURRENT FILING DATE. 2001 03-21
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PRIOR APPLICATION PERBER. 66/203, 727
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PRIOR APPLICATION NUMBER: 66/253, 625
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Zyskind, Judith W.
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APPLICANT: Oblsen, Kari L.
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APPLICANT: Stewart. Timothy A. APPLICANT: Tumas, Danjel
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